

Claims:

- 5 1. A method for controlling the operation of a mobile station (MS) in a packet switched communication network (20) based on a cellular network, which communication network (20) is arranged to transfer information between a base station (BTS) and at least one mobile station (MS) by means of a radio channel, wherein to transfer information, a transmission power on a set level is used on the radio channel, and wherein information that is divided into successive blocks (10, B0—B11) is transmitted from the base station (BTS) to the mobile station (MS) on the radio channel, **characterized** in that said block (10, B0—B11) comprises information (PR) on the transmission power level of any block (10, B0—B11).
- 15 2. The method according to claim 1, **characterized** in that said block (10, B0—B11) comprises information (PR) on the transmission power level of another block (10, B0—B11) to be transmitted next.
- 20 3. The method according to claim 1, **characterized** in that said block (10, B0—B11) comprises information (PR) on the transmission power level of said block (10, B0—B11).
- 25 4. The method according to claim 1, **characterized** in that an RLC block (10, B0—B11) according to the GPRS system is used as said block (10, B0—B11), and that information (PR) on the transmission power level is transmitted by means of an MAC header in the RLC block (10, B0—B11).
- 30 5. The method according to claim 4, **characterized** in that the transmission power level (PR) is indicated by means of bits (1—8) contained in an octet (Octet 1—M) of said MAC header, at least some of the bits being arranged for an TFI field (TFI) in a way known as such.
- 35 6. The method according to claim 1, **characterized** in that the transmission power level is indicated as a difference (PR) with respect to a known reference level.

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7. The method according to claim 6, **characterized** in that said reference level used is a BCCH channel according to the GPRS system.

5 ~~8.~~ A communication system for implementing packet switched data transmission based on a cellular network, which communication system (20) is arranged to transmit information between a base station (BTS) and at least one mobile station (MS) by means of a radio channel, wherein data transmission on the radio channel is arranged to take place with a transmission power on a set level, and wherein the radio channel is arranged to transmit information that is divided into successive blocks (10, B0—B11), from the base station (BTS) to the mobile station (MS), **characterized** in that the communication system (20) is also arranged to transmit said block (10, B0—B11) containing information (PR) on the transmission power level of any block (10, B0—B11), via a radio channel.

15 ~~9.~~ A wireless communication device, arranged to function in a communication system, which communication system is arranged to implement packet switched data transmission based on a cellular network, and which communication system (20) is arranged to transmit information between a base station (BTS) and at least one wireless communication device (MS) by means of a radio channel, wherein data transmission on the radio channel is arranged to take place with a transmission power on a set level, and wherein the radio channel is arranged to transmit information that is divided into successive blocks (10, B0—B11), from the base station (BTS) to the wireless communication device (MS), **characterized** in that the wireless communication device (MS) is also arranged to receive said block (10, B0—B11) transmitted by the base station (BTS) on the radio channel, which block (10, B0—B11) contains information (PR) on the transmission power level of any block (10, B0—B11).

25 ~~10.~~ A method for controlling the function of a mobile station (MS) in a packet switched communication network (20) based on a cellular network, which communication network (20) is arranged to transfer information between a base station (BTS) and at least one mobile station (MS) by means of a radio channel, wherein to transfer

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information, a transmission power of a set level is used on the radio channel, wherein information that is divided into successive blocks (10, B0—B11) is transmitted from the base station to the mobile station via a radio channel, **characterized** in that a block (10, B0—B11) that is transmitted repeatedly and at fixed intervals is transmitted with a fixed transmission power in order to establish a reference level.

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11. A communication system for implementing packet switched data transmission based on a cellular network, which communication system (20) is arranged to transmit information between a base station (BTS) and at least one mobile station (MS) by means of a radio channel, wherein the information transmission on the radio channel is arranged to occur with a transmission power on a set level, and which radio channel is arranged to transmit information that is divided into successive blocks (10, B0—B11), from the base station (BTS) to the mobile station (MS), **characterized** in that the communication system (20) is also arranged to transmit, at a fixed transmission power, a block (10, B0—B11) that is transmitted repeatedly and at fixed intervals, to establish a reference level and control the mobile station (MS).

12. A wireless communication device, arranged to function in the communication system, which communication system is arranged for implementing packet switched data transmission based on a cellular network, and which communication system (20) is arranged to transmit information between a base station (BTS) and at least one wireless communication device (MS) by means of a radio channel, wherein data transmission on the radio channel is arranged to take place with a transmission power on a set level, and which radio channel is arranged to transmit information that is divided into successive blocks (10, B0—B11), from the base station (BTS) to the wireless communication device (MS), **characterized** in that the wireless communication device (MS) is also arranged to receive a block (10, B0—B11) that is transmitted repeatedly and at fixed intervals from the base station (BTS) with a fixed transmission power, to establish a reference level for the wireless communication device (MS) and to control its function.

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